



10-18-06

JPW

10599645 - GAU: 3662

PTO/IB/21 (09-06)

Approved for use through 03/31/2007 OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/599,645
Filing Date	April 5, 2005
First Named Inventor	Peder R. Pedersen
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	HOI-16102/16

**ENCLOSURES (Check all that apply)**

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Non-U.S. references
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application		
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON & CITKOWSKI, P.C.
Signature	
Printed name	Ronald W. Citkowski
Date	10-17-06
Reg. No.	31,005

Express Mail Label No. EV 670976690 US Dated: 10-17-06

Docket No.: HOI-16102/16  
(PATENT)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re Patent Application of:  
Peder R. Pedersen et al.Application No.: 10/599,645 Filed on 10/4/2006  
(National Phase of PCT/DK2005/000230)

Confirmation No.: 2152

International Filing Date: April 5, 2005

Art Unit: N/A

---

For: SYSTEM AND METHOD FOR RADAR  
DETECTION OF AN OBJECT

---

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

Application No.: National Phase of PCT/DK2005/000230 2

Docket No.: HOI-16102

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

A concise explanation of relevance of the items listed on form PTO/SB/08 is given for only non-English language listed items.

NL 1,011,782

The Dutch NL 1,011,782 patent was cited in Category A in the International Search Report of the corresponding PCT application, and it is not referred to in the written opinion of the international searching authority or in the IPR.

The Derwent title for NL 1,011,782 is: "Frequency Modulated Continuous Wave radar system uses simultaneous multiple sweeps at different frequencies to achieve greater accuracy of range measurements."

The Derwent Abstract for NL 1,011,782 is: "Conventional Frequency Modulated Continuous Wave – FMCW – radar systems use a single sweep transmission signal, the frequency of which changes by the bandwidth (B) during a period (T). The present system transmits a number of simultaneous multiple sweeps at different frequencies. The receiver uses Fourier transformation techniques to achieve greater accuracy of range measurements."

Application No.: National Phase of PCT/DK2005/000230 3

Docket No.: HOI-16102

The system disclosed in NL 1,011,7782 uses a single sweep FM-CW transmission signal and does not make use of several receivers arranged at a first receiver direction and a second receiver direction.

Thus, the system disclosed in NL 1,011,782 is very much different from the system according to the new claim 1, which system simultaneously transmits both a CW radar signal and a FM-CW signal, and which system further has at least two receivers arranged in a first direction and at least two receivers arranged in a second direction.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this

Application No.: National Phase of PCT/DK2005/000230 4

Docket No.: HOI-16102

application by this firm) to our Deposit Account No. 07-1180, under Order No. HOI-16102/16.

Dated: October 17, 2006

Respectfully submitted,

Ronald W. Citkowski

Registration No.: 31,005

GIFFORD, KRASS, GROH, SPRINKLE,  
ANDERSON & CITKOWSKI, P.C.

2701 Troy Center Drive, Suite 330

Post Office Box 7021

Troy, Michigan 48007-7021

(248) 647-6000

Attorney for Applicant



PTO/SB/08A/B (09-06)  
Approved for use through 03/31/2007. OM 8 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/599,645	
			Filing Date	April 5, 2005	
			First Named Inventor	Peder R. Pedersen	
			Art Unit	3662	
			Examiner Name	Not Yet Assigned Bernarr GREGORY	
Sheet	1	of	1	Attorney Docket Number	HOI-16102/16

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/BG	AA*	US-5,731,778	03-24-1998	Nakatani et al.	
/BG	AB*	US-5,325,097	06-26-1994	Zhang et al.	
/BG	AC*	US-4,241,347	12-23-1980	Albanese et al.	
/BG	AD*	US-6,097,331	08-01-2000	Matsugutani et al.	
/BG	AE*	US-5,973,636	10-26-1999	Okubo et al.	
/BG	AF*	US-20030122702-A1	05-04-2004	Kishida et al.	
/BG	AG*	US-3,120,659	10-23-1961	Wells et al.	
/BG	AH*	US-20020190893-A1	05-13-2003	Akasu	
/BG	AI*	US-6,492,938	12-10-2002	Alland	
/BG	AJ*	US-6,104,336	08-15-2000	Curran et al.	
/BG	AK*	US-5,625,362	04-29-1997	Richardson et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>3</sup> (if known)	MM-DD-YYYY			
/BG	BA	EP-EP 627 634	12-07-1994	Delco Electronics Corp		
/BG	BB	EP-EP 0 403 085	12-19-1990	Hughes Aircraft Co		
/BG	BC	EP-EP 0 766 100	04-02-1997	Nippon Denso Co		
/BG	BD	NL-NL 1011782	12-01-2000	Hollandse Signaalapparaten		
/BG	BE	EP-EP 0 913 705	05-06-1999	Toyota Motor Co Ltd		
/BG	BF	EP-EP 0 947 852	10-06-1999	Toyota Motor Co Ltd		
/BG	BG	GB-GB 2 380 682	04-16-2003	Edh et al.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an angle asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					T <sup>2</sup>
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issuance number(s), publisher, city and/or country where published.			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Bernarr Gregory/	Date Considered	04/03/2009
--------------------	-------------------	-----------------	------------

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BG/